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5.1.6
Compugen Ltd.
GenCore version (c) 1993 - 2005
          Copyright
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- protein search, using sw model OM protein

February 16, 2005, 16:16:11 Run on:

updates/sec ; Search time 38.2706 Seconds (without alignments) 2330.584 Million cell updates/

US-10-003-356-8 4904 1 MFBRRKEQDEGPGIHEFLAF.....TVSTVLDDRVLIYMCPLKLQ 927 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext Scoring table:

0.5

283416 segs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:* 1 2 E 4

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	a(2+)-sensing re	alcium	ium receptor	alcium recepto	aste receptor T1	etabotropic glut	mate recepto	pic gl	pic glut	pic gl	1-conpl	pic glut	pic gl	pic glut	pic gl	pic gl	_	pic gl	cal pr	pic gl	ical pr	oic gl	: liga	e recept	robable ligan	tama	robable ligand-g	amma-aminobut	opic gluta
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ALIGNMENTS

RESULT 1

Ca(2+)-sensing recept C; Species: Bos primig C; Date: 19-Mar-1997 #; C; Accession: S40476 R; Brown, E.M.; Gamba, Nature 366, 575-580, A; Title: Cloning and A; Reference number: SA; A; Reference nu	112 33 35 287 227 3 3 47 3 3 47	Gattle) Argeeseign: 840406 Argeelence muber: 840476 Arg
Dp	333	
& &	391	LCTGEEKLEDLKNTYLDTSQLRITKQCKQAVYAIAHGLDHLSRCQEGQGPFGSNQQ 459 : :: : : AFRPLCTGEENISSVETPYMDYTHLRISYNVYLAVYSIAHALQDIYTCIPGRGLF-TNGS 449

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E.M.; Hebert,
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A56715
calcium receptor (clone phPCaR-4.0) - human
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 19-Oct-1995 #sequence revision 19-Oct-1995 #text_change
C; Date: 19-Oct-1995 #sequence revision 19-Oct-1995 #text_change
C; Accession: A56715; S49341; A49419; B49419; C49419
R; Garrett, J.E.; Capuano, I.V.; Hammerland, L.G.; Hung, B.C.P.; J. Biol. Chem. 270, 12919-12925, 1995
A; Title: Molecular cloning and functional expression of human pa
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C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Uul-1996 #sequence_revision 02-Uul-1996 #text_change 09-Ju
C;Accession: 159362 #NE: 5 Nowman, A.M.; Snyder, S.H.
Proc. Natl. Acad. Sci. U.S.A. 92, 3161-3165, 1995
A;Accession: 159362
A;Status: translated from GB/EMBL/DDBJ
A;Residues: 1-1079 cRES>
A;Cross-references: UNIRROT:P48442; EMBL:U20289; NID:G790578; PIDN:AB
A;Residues: 1-1079 cRES>
A;Cross-references: UNIRROT:P48442; EMBL:U20289; NID:G790578; PIDN:AB
A;Residues: 1-1079 cRES>
A;Ttle: Cloning and functional expression of a rat kidney extracellu
R;Recard, D.; Park, J.; Lee, W.S.J. 92, 131-135, 1995
A;Ttle: Cloning and functional expression of a rat kidney extracellu
A;Residues: 1-137, X', 135-1079
A;Residues: 1-137, X', 135-1079
A;Residues: 1-137, X', 135-1079
A;Residues: 1-137, X', 135-1079
A;Cross-references: GB:U10354
A;Residues: 1-137, X', 135-1079
A;Cross-references: GB:U10354
A;Residues: 1-137, X', 135-1079
A;Cross-references: GB:U10354
A;Residues: 1-137, X', 135-1079
C;Reywords: calcium; glycoprotein; phosphoprotein; transmembrane #status predicted <TMI>F;610-635/Domain: transmembrane #status predicted <TMI>F;620-670/Domain: transmembrane #status predicted <TMI>F;630-670/Domain: transmembrane #status predicted <TMI>F;630-670/Domain: transmembrane #status predicted <TMI>F;040/Domain: 
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                                               VGRFNFRSTNFELVIPINSTIFWNTESSRLPHSVCTDVCPPGTGRGFVQRE
                                                                                                           CADGHVSRKPGERECEQCGEDYWSNAQKSECVLKEVEY LAYDEALGFTLVI
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Pred. No. 8.7e-116;
1; Mismatches 332;
                                                                                                                                                                                                                                                                                                FSLCLSCLLGKTSSLFLAYRISKSKTQLTSMHPLYRK-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LLRPERNTSEIVCGRVSTTDNCIQLTSAFV-
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illarity 38.0%;
Conservative 18
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les 352; Conser
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18 LAFLW--AELGSEAKEEKEEERTCRLLGKCVDAENHSLVIGGLFPIDSRTIPANESI-LE

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B.C.P.; Brown, B.M.; Hebert,
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                                                                                                                         NTESSRIPHSVCTDVCPPGTGRGFVQREPICCPDSIPCADGHVSRKPGERECEQCGEDYW
                                                                                                                                                                                                                                                                                                             SGFSREVPFSNCSRDCLAGTRKGIIEGEPTCCFECVECPDGEYSDETDASACNKCPDDFW
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                                                  TPNCHLQEGAKGPLPVD--TFLRGHEBSGDRFSNSSTAFRPLCTGDENISSVETPYIDYT
                                                                                                  QLRITKQCKQAVYALAHGLDHLSRCQEGQGPFGSNQQCAYIPTFDFWQLMYYMKEIKFKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GFLIQVSLIIMLLSSMLFIDKPHNWSCMAGQVTLALGFSLCLSCLLGKTSSLFLAYRISK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1088
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C; Species: Homo sapiens (man)
C; Date: 19-Oct-1995 #sequence_revision 19-Oct-1995 #text_ch
C; Accession: B56715
R; Garrett, J.B.; Capuano, I.V.; Hammerland, L.G.; Hung, B.C
J. Biol. Chem. 270, 12919-12925, 1995
A; Title: Molecular cloning and functional expression of hum
A; Reference number: A56715; MUID: 95279439; PMID: 7759551
A; Accession: B56715
A; Accession: B56715
A; Reference number: A56715; MUID: 9683746; PIDN: AAA86504.1
C; Keywords: 1-1088 < GAR>
A; Cross-references: GB: U20760; NID: 9683746; PIDN: AAA86504.1
C; Keywords: glycoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity 37.6%; Pred. No. 1.6e-114; 3; Conservative 180; Mismatches 332;
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A;Reference number: $49341
A;Accession: $49341
A;Accession: $49341
A;Accession: $49341
A;Residues: preliminary
A;Molecule type: DNA
A;Residues: 1-180, 'Q'. 182-989, 'R', 991-1078 <PEA>
A;Cross-references: EMBL:X81086
C;A; 7297-130; 1393
A;Residues: 1-180, 'Q'. 182-989, 'R', 991-1078 <PEA>
A;Cross-references: EMBL:X81086
C;A; 7297-130; 1393
A;Reference number: A9419; MUID:94094324; PMID:7916660
A;Reference number: A9419; MUID:94094324; PMID:7916660
A;Residues: JR-192 <POL>
A;Residues: JR-193 <P
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                                                                                                                     PIDN: AAA86503.1;
     MUID:95279439; PMID:7759551
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No. 1.5e-115;
Smatches 333;
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                                                                                                                     NID:9683744;
                                                              A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-1078 <GAR>
A; Cross-references: GB:U20759; NID:g683744;
R; Pearce, S.H.S.; Thakker, R.V.
Submitted to the EMBL Data Library, August
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     A56715;
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A;Reference number: A;Accession: A56715
A;Status: preliminary
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C;Superfamily: metabotropic glutamate receptor 4 C;Keywords: transmembrane protein	Query Match 17.2%; Score 845; DB 2; Length 858; Best Local Similarity 28.0%; Pred. No. 8.8e-54; Matches 238; Conservative 164; Mismatches 382; Indels 66; Gaps	Oy 54 VIGGLFPIDSRTIPANESILEPASAKCEGFNFORFRWMKAMIHMIKBINKRKDILPNITL 1: 	114 GYQIFDTCFTISKSVEAVLVFLTG-QEENRPNFRNSTGAFPAGIVGAGGSFLSVPASR	1/1 1LGLYYLPQVGYTSTCV1LSDKYQFPSYLRV1ASDKIQSKAVVKRIQHFGWVWVGAIAAD : : :: : :	231	OY 287 SDIDLSLFVLEMIHHNITDRTWIATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLK 34 : : : : : : :	333 EFSHYVETHLALAADPAF-CASLNAELDLEEHVMGQRCPRCDDIM 401 SDOLCTGEEKLEDLKNIVLDTSOLPITWOCKOAVVATAHGLDHISDGGEGGSNOOG	377 LQNL	OY 461 AYIPTFDFWQLMYYMKEIKFKSHEDKWVILDDNGDLKNGHYDVLNWHLDDEGEISFVTVG 52	QY 521 RFNFRSTNFELVIPTNSTIFWNTESSRLPHSVCTDVCPPGTGRGFVQREPICCFDSI 57 	QY 578 PCADGHVSRKPGERECEQCGEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAFV 63	Qy 638 VLAVTAVYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSCMAGQVTLAL 69 : : : : : : : : : : : : : : : Db 588 ALAALGLSVHHWDSPLVQASGGSQFCFGLICLGLFCLSVLLFPGRPSSASCLAQQPMAHL 64	QY 698 GFSLCLSCLLGKTSSLFLAYRISKSKTQLTSMHPLYRKIIVLISVLAEIGICTAYLIL 75 	QY 756 EPPMVYKNMESQNTKIILGCNEISIBFLYSMFGIDAFLALLCFLTTFVARQLPDNYYEGK 81 : : :	QY 816 CITFGMLVFFIIWMSFVPVYLSTKGKFKMAVEIFAILASSHGLLGCIFAPKCLIILLRPE 87	Qy 876 RNTSEIVCGR 885	RESULT 6 JC7160 metabotropic glutamate receptor subtype 3 precursor - mouse C;Species: Mus musculus (house mouse) C;Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 11-May-2000
FGWVWVGAIAADDDYGKYGVKTFKEKME	–н დ–	235 ICIDFSELISQYSDEERIQHVVEVIQNSTAKVIVVFSS 310 ATEAWITSALIAKPEYFPYFGGTIGFATPRSVIPGLKE	Db 295 ASEAWASSSLIAMPQYFHVVGGTIGFALKAGQIPGFREFLKKVHPRKSVHNGFAKEFWEE 354 QY 370 AFNC-TWPNSSVPYNVDHRVNMTGKEDRLYDMSDQLCTGEEKLEDLKNTYLDTS 422 Db 355 TFNCHLOEGAKGPLPVDTFLRGHERSGDRESNSSTARRDICTGDENISSVFTDVT 412	413 HLRISYNVYLAVYSTAHALODIYTCI DEBCIE - THE HEISYNVYLAVYSTAHALODIYTCI DEBCIE - THE HEISYNVYLAVYSTAHALODIYTCI DEBCIE - THE CONTRACTOR - THE CON	483 HEDKWILDDNGDLKNGHYDVLNWHLD-DEGEISFVTVGRFNFRSTNFELVIPTNSTIFW 54	542 NTESS	Qy 592 ECEQCGEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVIHRHT 651 : : : : : : :	652 PLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSCMAGQVTLALGFSLCLSCLLGKTS 7		711 RVLLVFEAKIP-TSFHRKWWGLNLQFLLVFLCTFMQİVİCVIWLYTAPPSSYR 764 MESQNTKIILGCNEISIEFLYSMFGIDAFLALLCFLTTFVARQLPDNYYEGKCITFGML	824	824 FFIVWISFIPAYASTYGKFVSAVEVIAILAASFGLLAC 884 GRVSTTDNCIQLTSAFVSSELNNTTVST 	883 -R LT 5	e e e e e e e e e e e e e e e e e e e	cession: JC7683 cagawa, M.; Kusakabe, Y.; Miura, H.; Ninomiya, Y.; Hino, A. lem. Biophys. Res. Commun. 283, 236-242, 2001	ference number: JC7683; MUID:21222875; PMID:11322794 session: JC7683	ues: 1-858 -reference nt: This p ics: tir3 osition: 4

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|SYSIHHGLSPKVWVASESWLTSDLVMTLPNIARVGTVLGFLQRGALLP---
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                                  Length 858
                                                           Indels
                                                          382;
                                 17.2%; Score 845; DB 2;
28.0%; Pred. No. 8.8e-54
vative 164; Mismatches 38
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                                                                              SVLABIGICTAYLILEPPMV--YKNMESQNTKIILGCNBISIBFLYSMFGIDAFLALLCF
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A; Status: not compared with compared with compared with compared with A; Status: not compared with compared with compared with compared status: not compared status compared status predicted cTM1>
F; 603-625/Domain: transmembrane #status predicted cTM2>
F; 604-660/Domain: transmembrane #status predicted cTM3>
F; 612-690/Domain: transmembrane #status predicted cTM4>
F; 717-737/Domain: transmembrane #status predicted cTM6>
F; 717-737/Domain: transmembrane #status predicted cTM6>
F; 7182/Domain: transmembrane #status predicted cTM6>
F; 7182/Domain: transmembrane #status predicted cTM6>
F; 7182/Binding site: phosphate (Ser) (covalent) (by protein F; 705/Binding site: phosphate (Ser) (covalent) (by cAMP-d condition site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (by cAMP-d condition) site: phosphate (Ser) (covalent) (covalent) site: phosphate (Ser) (covalent) (covalent) site: phosphate (Ser) (covalent) site: phosphate (Ser) (covalent) site: phosphate (Ser) (covalent) site: phosphate (Ser) (covalent) site: phosphate (Ser) site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate site: phosphate
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S71376
Glutamate receptor homolog - cherry salmon
C;Species: Oncorhynchus masou (cherry salmon)
C;Date: 11-Mar-1998 #sequence_revision 17-Apr-1998 #text_ch
C;Accession: S71376
R;Kubokawa, K.; Miyashita, T.; Nagasawa, H.; Kubo, Y.
FEBS Lett. 392, 71-76, 1996
A;Title: Cloning and characterization of a bifunctional met
A;Reference number: S71376
A;Atatus: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-1218 <KUB>
A;Cross-references: UNIPROT: 090ZF3
C;Keywords: glycoprotein; phosphoprotein
F;603-625/Domain: transmembrane #status predicted <TM3>
F;610-660/Domain: transmembrane #status predicted <TM4>
F;640-660/Domain: transmembrane #status predicted <TM5>
F;717-737/Domain: transmembrane #status predicted <TM6>
F;717-737/Domain: transmembrane #status predicted <TM6>
F;717-737/Domain: transmembrane #status predicted <TM7>
F;104,233,403,525,757/Binding site: carbohydrate (Asn) (cov
F;65,699,961/Binding site: phosphate (Thr) (covalent) (by
F;705/Binding site: phosphate (Thr) (covalent)
F;892/Binding site: phosphate (Ser) (covalent)
F;892/Binding site: phosphate (Ser) (covalent)
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Pred. No. 7.6e-5
32; Mismatches 3
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il Similarity 25.6%;
228; Conservative 16
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C;Accession: JC7160
R;Minoshima, T.; Nakanishi, S.
J. Biochem. 126, 889-896, 1999
A;Title: Structural organization of the mouse metabotropic glu
A;Reference number: JC7160; MUID:20012997; PMID:10544282
A;Reference number: JC7160; MUID:20012997; PMID:10544282
A;Reference number: JC7160; MUID:20012997; PMID:10544282
A;Residues: 1-879 < MIN>
A;Residues: 1-879 < MIN>
A;Residues: GB:AF170696
C;Genetics:
A;Gene: mGluR3
C;Superfamily: metabotropic glutamate receptor subtype 3 #8
C;Superfamily: metabotropic glutamate receptor subtype 3 #8
C;Superfamily: metabotropic glutamate receptor subtype 3 #8
C;Superfamily: metabotropic glutamate receptor subtype 5;11-24/Domain: transmembrane #8tatus predicted <TM1>
F;614-634/Domain: transmembrane #8tatus predicted <TM3>
F;689-709/Domain: transmembrane #8tatus predicted <TM5>
F;689-709/Domain: transmembrane #status predicted <TM5>
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Pred. No. 4.5e-53;
7; Mismatches 389;
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LVIGGLFPIDSRTIPANESILEPASAKCEGFNFOR-FRWMKAMIHMIKEINKRKDILPNI
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C;Species: Homo sapiens (man)
C;Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change
C;Accession: JC2132
R;Minakami, R.; Katsuki, F.; Yamamoto, T.; Nakamura, K.; Sugiyam
B;ochem. Biophys. Res. Commun. 199, 1136-1143, 1994
                                                                                                      TLGYQIFDTC----FTISKSVEAVLVFLTGQEENRPNFRNSTGAFP-
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            GYEQEAVGG-ITVKLHSEEVTSFDDYFLKLRLNTNTRNPWFPEFWQHRFQCRIPGHPLE
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C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 09-c;Gacession: Jun5562
R;Tanabe, Y: Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
R;Tanabe, Y: Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
N;Tanabe, Y: Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
A;Title: A family of metabotropic glutamate receptors.
A;Reference number: JH0561; MUDE:92110002; PMID:1309649
A;Recession: JH0562
A;Molecule type: MRNA
A;Residues: 1-879 «TAN>
A;Cross-references: UNIPROT:P31422
A;Experimental source: brain
C;Comment: This protein is coupled to a G protein and evokes a various comment: This protein is coupled to a G protein and evokes a various by Experimental source: brain
C;Superfamily: metabotropic glutamate receptor 4
C;Reywords: G protein-coupled receptor; glycoprotein; phosphoprotein F;21-22/Domain: signal sequence #status predicted <TRI>F;614-634/Domain: transmembrane #status predicted <TRI>F;646-664/Domain: transmembrane #status predicted <TRI>F;709/Domain: transmembrane #status predicted <TRI>F;709/Domain: transmembrane #status predicted <TRI>F;709/Domain: transmembrane #status predicted <TRI>F;709/Domain: transmembrane #status predicted <TRI>F;700-791/Domain: transmembrane #status predicted <TRI
F;200,292,414,439/Binding site: carbohydrate (Ser) (covalent) #status predicted
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                                                             NVDHRVNMTGKEDRLYDMSDQLCTGEEKLEDLKNTYLDTSQLRITKQCKQA
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Pred. No. 1.6e-51;
; Mismatches 393;
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Matches 240; Conservative 16
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C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 05-Jan-1996
C; Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 05-Jan-1996
C; Accession: UC2131
R; Minakami, R.; Katsuki, F.; Yamamoto, T.; Nakamura, K.; Sugiyama, H.
B; Ochem. Biophys. Res. Commun. 199, 1136-1143, 1994
A; Title: Molecular cloning and the functional expression of two isoforms of hu A; Reference number: UC2131; MUID: 94197696; PMID: 7908515
A; Reference number: UC2131
A; Molecule type: mRNA
A; Residues: 1-1212 <MIN>
C; Comment: This protein is coupled to guanine nucleotide binding proteins.
C; Keywords: Glycoprotein; neurotransmitter; receptor; transmembrane #status predicted <TM1>
F; 580-604/Domain: transmembrane #status predicted <TM3>
F; 644-664/Domain: transmembrane #status predicted <TM3>
F; 644-664/Domain: transmembrane #status predicted <TM5>
F; 694-714/Domain: transmembrane #status predicted <TM5>
F; 773-794/Domain: transmembrane #status predicted <TM6>
F; 803-827/Domain: transmembrane #status predicted <TM6>
F; 803-827/Domain: transmembrane #status predicted <TM7>
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      750 LILSCTFYAFKTRNVPANFNEAKYIAFTMYTTCIIWLAFVPIYFGS--NYKIITMCFSVS
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A; Title: Molecular cloning and the functional expression of two iso A; Reference number: JC2131; MUID: 94197696; PMID: 7908515
A; Accession: JC2132
A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-1180 <MIN>
C; Comment: This protein is coupled to guanine nucleotide binding pr C; Keywords: glycoprotein; neurotransmitter; receptor; transmembrane E; 580-604/Domain: transmembrane #status predicted <TM1>
F; 617-637/Domain: transmembrane #status predicted <TM3>
F; 644-664/Domain: transmembrane #status predicted <TM5>
F; 694-714/Domain: transmembrane #status predicted <TM5>
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metabotropic glutamate receptor mGluR5 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A42916
C;Accession: A42916
R;Abe, T.; Sugihara, H.; Nawa, H.; Shigemoto, R.; Mizuno, N.; Nakanishi, S.
J. Biol. Chem. 267, 13361-13368, 1992
A;Title: Molecular characterization of a novel metabotropic glutamate receptor mGluR5 co.
A;Reference number: A42916; MUID:92317054; PMID:1320017
A;Accession: A42916
A;Accession: A42916
A;Accession: A42916
A;Accession: A42916
A;Cross-references: UNIPROT:P31424; GB:D10891; NID:g220813; PIDN:BAA01711.1; PID:d1002180
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A; Experimental source: brain
A; Note: sequence extracted from NCBI backbone (NCBIN:107749, h
C; Keywords: G protein-coupled receptor; transmembrane protein
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Best Local Similarity 24.9%; Pred. No. 1.6e-48;
Matches 218; Conservative 185; Mismatches 361;
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      AYDEALGFTLVILSVFGAFVVLAVTAVYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSM
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C; Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-200
C; Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-200
C; Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-200
C; Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-200
C; Date: 04-Mar-1993 #sequence argument in the interview of a Grotein-coupled glander: April 1950
A; Title: Cloning, expression, and gene structure of a Grotein-coupled glander: Apreliminary; not compared with conceptual translation
A; Molecule type: nucleic acid
A; Residues: 1-1199 <HOU>A; Tanabe, Y: Tsuchida, K.; Shigemoto, R.; Nakanishi, S.
Nature 349, 760-765, 1991
A; Title: Sequence and expression of a metabotropic glutamate receptor.
A; Reference number: $15362; MUID:91156047; PMID:1847995
A; Status: prellminary
A; Molecule type: mRNA
A; Residues: 1-1199 <MAS>
A; Cross-references: EMBL:X57569; NID:g56646; PIDN:CAA40799.1; PID:g56647
C; Keywords: G protein-coupled receptor; transmembrane protein
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C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 09-Jul-206
C;Accession: JH0561
R;Tanabe, Y.; Masu, M.; Ishii, T.; Shigemoto, R.; Nakanishi, S.
Neuron 8, 169-179, 1992
A;Title: A family of metabotropic glutamate receptors.
A;Reference number: JH0561; MUID:92110002; PMID:1309649
A;Reference number: JH0561; MUID:92110002; PMID:1309649
A;Residues: 1-872 <TAN>
A;Residues: 1-872 <TAN>
A;Residues: UNIPROT:P31421
A;Residues: UNIPROT:P31421
A;Experimental source: brain
C;Comment: This protein is coupled to a G protein and evokes a variety of
C;Superfamily: metabotropic glutamate receptor 4
C;Superfamily: metabotropic glutamate receptor 7
F;19-872/Product: metabotropic glutamate receptor 2 #status predicted <MET
F;19-872/Product: metabotropic glutamate receptor 2 #status
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1568-590/Domain: transmembrane #status predicted <TII>
1605-625/Domain: transmembrane #status predicted <TII>
1605-625/Domain: transmembrane #status predicted <III>
1680-700/Domain: transmembrane #status predicted <TIV>
1726-747/Domain: transmembrane #status predicted <TVI>
1761-782/Domain: transmembrane #status predicted <IVI>
1795-819/Domain: transmembrane #status predicted <VII>
1795-819/Domain: transmembrane #status predicted <VII>
1795-819/Domain: transmembrane #status predicted <VII>
1801,675,827,837,843/Binding site: phosphate (Ser) (covalent) #status predicted 
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Best Local Similarity 25.3%
Matches 240; Conservative
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Db 762 IGFTMYTTCII	IGFTMYTTCIIWLAFLPIFYVTSSDYRVQTTTMCVSVSLSGSVVLGCLFAPKLHIILFQP 821	OY 506 WHLDDEGEISFVTVGRFNFRSTNFELVIPTNSTIFWNTESSRLPHSVCTDVCPPGTGRGF 565
Qy 875 ERNTSEIVCGRUST	RVSTTDNCIQLTSAFVSSELNNTTVSTVLDDRVLI 919	: : : : : : : : : : : : : : : : : : :
: : :	VVSHRAPTSRFGSAAPRASANLGQGSGSQFVPTVCNGREVV 865	OY 566 VOREPICCEDSIPCADGHVSRKPGERECEQCGEDYWSNAQKSECVLKEVEYLAYDEALGF 625
RESULT 14 A49874 metabotropic glutamate receptor N:Alternate names: metabotropic	eceptor 7 - rat	626
C;Species: Rattus norvegicus C;Date: 02-Jul-1996 #sequenc C;Accession: A49874; I57954	(Norway rat) e_revision 02-Jul-1996 #text	686 WSCMAGQVTLALGFSLCLSCLLGKTSSLFLAYRI-SKSKTQLTSMHPLYRKIIVLISVLA
R;Okamoto, N.; Hori, S.; J. Biol. Chem. 269, 1231- A;Title: Molecular charac A:Reference number: A4987	:i, S.; Akazawa, C.; Hayashi, Y.; Shigemoto, R.; Mizuno, N.; Nakanishi, 1231-1236, 1994 characterization of a new metabotropic glutamate receptor mGluR7 coup e A49874; MUID:94117433; PMID:8288585	FRRVFLGLGMCISYAALLTKTNRIYRIFEQGKKSVTAPRLISPTS CTAYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSM : : : : : : : : : : : : :
A; Accession: A49874 A; Status: preliminary; tr A; Molecule type: mRNA	в/емвг/ровл	Db 702 QLAİ-TSSLİSVQLLGVFIWFGVDPPNIIIDYDEHKTMNPEQARGVLKCDITDLQIICSL 760 Qy 787 FGIDAFLALLÇFLTTFVARQLPDNYYEGKCITFGMLVFFIIWMSFVPVYLST-KGKFKMA 845
A; Residues: 1-915 < RES> A; Cross-references: UNIPFR; Saugstad, J.A.; Kinzie,	RES> UNIPROT: P35400; GB: D16817; NID: g458728; PIDN: BAA04092.1; PID: g458729 inzie, J.M.; Mulvihill, E.R.; Segerson, T.P.; Westbrook, G.L.	. 761
MOI: Fharmacoi: 45, 36/-3 A;Title: Cloning and expr A;Reference number: 15795 A;Accession: T57954	and expression of a new member of the L-2-amino-4-phosphonobutyric acid ir: I57954; MUID:94195260; PMID:8145723	
A;Status: preliminary; tr A;Molecule type: mRNA	ranslated from GB/EMBL/DDBJ	RESULT 15
EABL	J:U06832; NID:g459657; PIDN:AAA20655.1; PID:g459658	matabotropic glutamate receptor, mGluR6 - rat C;Species: Rattus norvegicus (Norway rat) C:Date: 21-Sep-1993 #segmence revision 18-Nov-1994 #text change 09-Jul-2004
A;Gene: MGLOK, C;Superfamily: metabotro; C;Keywords: neurotransmit	ns, y: metabotropic glutamate receptor 4 neurotransmitter receptor	A46742 .; Iwakabe, H.; Aka
Query Match' Best Local Similarity 24.3 Matches 214; Conservative	15.5%; Score 758; DB 2; Length 915; 24.3%; Pred. No. 2.4e-47; ative 191; Mismatches 354; Indels 120; Gaps 32;	cular characterizat cumber: A46742; MUID A46742
Qy 53 LVIGGLFPIDS :: : 3 Db 49 VTLGGLFPVHZ	LVIGGLFPIDSRTIPANESILEPASAKCEGFNFQR-FRWMKAMIHMIKEINKRKDILPNI 111 : : : : : :	eic aci K> NIPROT:
OY 112 TLGYQIFDTCI : DD 11GARILDTCS	TLGYQIFDTCFTISKSVEAVLVFLTGQ-EENRPNFRNSTGAFPAGIVGAGGS 162	A;Experimental source: retina A;Note: sequence extracted from NCBI backbone (NCBIN:133246, NCBIP:133250) C;Superfamily: metabotropic glutamate receptor 4 C;Keywords: G protein-coupled receptor; transmembrane protein
Qy 163 FLSVPASRILC : : : Db 160 SVSIMVANILE	FLSVPASRILGLYYLPQVGYTSTCVILSDKYQFPSYLRVIASDKIQSKAVVKRIQHFGWV 222 : : : : : : :: : : : : : :: SVSIMVANILRLFQIPQISYASTAPELSDDRRYDFFSRVVPPDSFQAQAMVDIVKALGWN 219	Query Match Best Local Similarity 24.9%; Pred. No. 6.4e-45; Matches 217; Conservative 174; Mismatches 380; Indels 101; Gaps 28;
Qy 223 WVGAIAADDD::::::::::::::::::::::::::::::::	WVGAIAADDDYGKYGVKTFKE-KMESANLCVAFSETIPKVYSNEKMQKAVKAV 274 : : :: : : : : : : : : : : :	Oy 53 LVIGGLFPIDSRTIPANESILEPASAKCEGF-NFORFRWMKAMIHMIKEINKRKDILPNI 111 : ::
Oy 275 KTSTAKVIVL) ::: :: 276 DIPNSRAVVI	KTSTAKVIVLYTSDIDLSLFVLEMIHHNITDRTWIATEAWITSALIAKPEYFPYF 329 ::: ::: : :: DTPNSRAVVIFANDEDIKQILAAAKRADQVGHFLWVGSDSW-GSKINPLHQHEDIA 330	Oy 112 TLGYOIFDTCFTISKSVEAVLVFLTGQEENRPNFRNSTGAFPAGIV 157 : : : : : : : De 84 RLGARLLDTCSRDTYALEQALSFVQALIRGRGDGDEASVRCPGGVPPLRSAPPERVVAVV 143
Qy 330 GGTIGFATPRED by 331 EGAITIQPKRA	GGTIGFATPRSVIPGLKEFLYDVHPNKDPNDVLTIEFWQTAFNCTWPNSSVPYNVDHRVN 389	Qy 158 GAGGSFLSVPASRILGLYYLPQVGYTSTCVILSDKYQFPSYLRVIASDKIQSKAVVKRIQ 217 : : : : :
Qy 390 MTGKEDRLY :: Db 378 ISGSKKED	MTGKEDRLYDMSDQLCTGEEKLEDLKNTYLDTSQLRITKQCKQAVYAIAHGLDHLSR- 446 :: :: :: ::: ISGSKKEDTDRKCTGQERIGKDSN-YEQEGKVQFVIDAVYAMAHALHHMNKD 428	Qy 218 HFGWVWVGAIAADDDYGKYGVKTFKE-KMESANLCVAFSETIPKVYSNEKMQKAV-KAVK 275 : : : : : :
Qy 447 -CQEGQGPFG: : : Db 429 LCADYRG	-CQEGQGPFGSNQQCAYIPTFDFWQLMYYMKEIKFKSHEDKWVILDDNGDLKNGHYDVLN 505 : :	Qy 276 TSTAKVIVLYTSDIDLSLFVLEMIHHNITDR-TWIATEAWITSALIAKPEYFPYFGG 331 : : ::
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391	449	418	509	472	267	526	627	583	687	643	742	700	964	758	849	815			
: TIGFATPRSVIPGLKEFLYDVHPNKDPNDVLTIBFWQTAFNCTWPNSSVPYNVDHRVNMT 391	GKEDRLYDMSDQLCTGEEKLEDLKNTYLDTSQLRITKQCKQAVYALAHGLDHLSRCQE	:	GQGPFGSNQQCAYIPTFDFWQLMYYMKBIKFKSHBDKWVILDDNGDLKNGHYDVLNWHLD 509		DEGEISFVTVGRFNFRSTNFELVIPTNSTIFWNTESSRLPHSVCTDVCPPGTGRGFVQ	. NGSASSGGYQAVGQWAEALRLDMEVLRWSGDPHEVPPSQCSLPCGPGERKKMVK 526	REPICCEDSIPCADGHVSRKPGERECEOCGEDYWSNAOKSECVLKEVEYLAYDEALGFTL		VILSVEGAFVVLAVTAVYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWS 687		CMAGOVTLALGFSLCLSCLLGKTSSLFLAYRISKSKTQLTSMHPLYRKIIVL-ISV 742		LABIGICTAYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMFGIDAFLALL 796		CFLTTFVARQLPDNYYEGKCITFGMLVFFIIWMSFVPVYLSTKGKFKMAVBIF		-AILASSHGLLGCIFAPKCLIILLRPERNTSE 880	VSLSLSASVSLGMLYVPKTYVILFHPEQNVQK 847	
332	392	367	450	419	510	473	568	527	628	584	688	644	743	701	797	759	850	816	
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Search completed: February 16, 2005, 16:37:58 Job time : 42.2706 secs

ASPECTOR DELLA

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